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添付公開書類:  
— 國際調査報告書

2文字コード及び他の略語については、定期発行される  
各PCTガゼットの巻頭に掲載されている「コードと略語  
のガイダンスノート」を参照。

A1

(54) Title: LATEX POLYMER PARTICLES CONTAINING FLUORESCENT SUBSTANCE OR CONTRAST MEDIUM AND  
PROCESS FOR PRODUCING THE SAME

(54) 発明の名称: 蛍光体または造影剤を含有するラテックスポリマー粒子およびそれらの製造方法

(57) Abstract: It is intended to provide a method of effectively incorporating an inorganic fluorescent substance or an inorganic contrast medium into latex polymer particles to be used in a diagnostic test or the like and fluorescent substance-containing latex polymer particles thus produced which show reduced non-specific adsorption of protein, etc. Latex polymer particles are produced by subjecting a latex-forming monomer, a macromer containing at least a hydrophilic polymer segment and a fluorescent substance or an inorganic contrast medium, which simultaneously coexist together in an aqueous medium, to polymerization.

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(57) 要約: 診断試験等で用いるラテックスポリマー粒子への無機蛍光体または無機造影剤の効果的な取り込法およ  
びそうして製造されるタンパク質等の非特異的吸着の低減した蛍光体含有ラテックスポリマー粒子の提供。ラテ  
ックス形成性モノマー、少なくとも親水性ポリマーセグメントを含むマクロマーおよび蛍光体または無機造影剤を水  
性媒体中に同時に共存させて重合反応を実施し、ラテックスポリマー粒子を製造する。

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP03/16325

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> C08F290/02, C08F2/44, G01N33/545, A61K49/00, A61K49/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> C08F290/00-290/14, C08F299/00-299/08, C08F2/44,  
G01N33/545, A61K49/00-49/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No: |
|-----------|---|-----------------------|
| A         | WO 97/45468 A1 (EASTMAN CHEMICAL CO.),<br>04 December, 1997 (04.12.97),<br>Claims and examples<br>& WO 97/45495 A1<br>& WO 01/90272 A2<br>& EP 902813 A<br>& EP 1290101 A<br>& US 5998543 A1<br>& US 6417267 B1<br>& JP 14-502443 A<br>& DE 69700813 T<br>& AU 3212297 A<br>& AU 3285997 A<br>& AU 729319 B<br>& CA 2255828 A<br>& ES 2141620 T<br>& BR 9709378 A<br>& WO 97/45490 A1<br>& EP 902800 A<br>& EP 902814 A<br>& US 5891950 A1<br>& US 6297328 B1<br>& JP 12-516271 A<br>& JP 14-502442 A<br>& DE 69715404 T<br>& AU 3212397 A<br>& AU 710775 B<br>& CA 2255702 A<br>& CA 2257107 C<br>& ES 2179349 T<br>& BR 9709389 A | 1-15                  |

Further documents are listed in the continuation of Box C.  See patent family annex.

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| * Special categories of cited documents: |  |
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|  |   |
|--|---|
| Date of the actual completion of the international search<br>02 April, 2004 (02.04.04) | Date of mailing of the international search report<br>20 April, 2004 (20.04.04) |
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Name and mailing address of the ISA/  
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**INTERNATIONAL SEARCH REPORT**

International application No.

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**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
|           | & BR 9709396 A & BR 0111096 A<br>& CN 1226260 A & CN 1226275 A<br>& CN 1226276 A   |                       |